Update on 5-year Review of Management Triggers for Humpback Chub

Technical Work Group Meeting
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Two Topics Related to Trigger

• Tier 1 Response
  • Threshold exceeded for sub-adults
    • Poor production
  • Conservation actions (listed in trigger document)
    • Additional HBC translocated

• Trigger review
  • ≤ 5 years
  • Evaluate & adjust
Management Triggers for Humpback Chub (Appendix O of EIS/Appendix D of BA)

• Purpose
  • Identifies criteria for conservation actions & mechanical removal
  • Minimizes likelihood of mechanical removal – early intervention of conservation actions
  • Regulatory document

• Review every 5 years
  • 2021 – first update to document
Review Process

• Assembled team of GC agency biologists (FWS, Reclamation, GCMRC, AZGFD, NPS, Navajo Nation, Hualapai Tribe)
• Series of 3 meetings
• Solicited input from TWG on comments/concerns - existing triggers
• Team reviewed & edited document
• Meeting topics summarized in Appendix
Updates to Trigger Document

• Assessed/updated technical assumptions & conservation action options
• Clarity of document
• Identified topics for additional evaluation
  • Western Grand Canyon - expansion drivers and resiliency of population
  • Bioeconomic model – incorporate immigration & sensitivity analysis
  • Predator index - concept needs to be explored and expanded
Next Steps

• Review by solicitors
• Official transmittal from Reclamation to FWS
• Distribute final version
Questions?